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APPLICATION NO. FILING DATE		G DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/941,447	08/28/2001		Patrick B. Halahan	M-9999-1D US	7110
32065 7	7590	03/11/2003			
RICHARD R			EXAMINER		
1704 N. IRVIN IRVING, TX			THOMAS, TONIAE M		
				ART UNIT	PAPER NUMBER
				2822	12
			DATE MAILED: 03/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	\ <u></u>	Applicati n No.		Applicant(s)				
	Antina On	09/941,447		HALAHAN ET AL.	/			
Offi	c Action Summary	Examin r		Art Unit				
		Toniae M. Thoma	T	2822				
Th M. Peri d for Reply	AILING DATE f this communication app	ears on the cover	sheet with the c	orrespondence address				
THE MAILING - Extensions of time after SIX (6) MOI - If the period for receive to reply we have a construction of the constr	ED STATUTORY PERIOD FOR REPLY BY DATE OF THIS COMMUNICATION. The may be available under the provisions of 37 CFR 1.13 NTHS from the mailing date of this communication. The sply specified above is less than thirty (30) days, a reply eply is specified above, the maximum statutory period within the set or extended period for reply will, by statute, and by the Office later than three months after the mailing man adjustment. See 37 CFR 1.704(b).	36(a). In no event, howen within the statutory minuil apply and will expire a cause the application to	PIRE 30-MONTH ever, may a reply be time imum of thirty (30) days SIX (6) MONTHS from to become ABANDONED	ely filed will be considered timely. the mailing date of this community (35 U.S.C. § 133).	cation.			
	nsive to communication(s) filed on 19 E	December 2002						
		is action is non-fi	nal					
	.,			nsecution as to the me	rite ie			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4)⊠ Claim(s) <u>1-12,20-22 and 30-80</u> is/are pending	in the application	1.					
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6) Claim(s) is/are rejected.								
7) Claim(s) is/are objected to.							
8) Claim(s) <u>1-12,20-22 and 30-80</u> are subject to re	estriction and/or	election requiren	nent.				
Application Pape	ers							
9)∏ The spec	cification is objected to by the Examine	г.						
10)∐ The drav	ving(s) filed on is/are: a)□ accep	ited or b)⊡ objecto	ed to by the Exan	niner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12)☐ The oath or declaration is objected to by the Examiner.								
Pri rity under 35	U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the a	ttached detailed Office action for a list	of the certified co	pies not receive	d.				
	dgment is made of a claim for domestic	•	• •		cation).			
	translation of the foreign language proedgment is made of a claim for domesti							
Attachment(s)								
	ences Cited (PTO-892) person's Patent Drawing Review (PTO-948) closure Statement(s) (PTO-1449) Paper No(s)	4) 🔀 5) 🗍 6) 🗍		(PTO-413) Paper No(s). <u>11</u> atent Application (PTO-152)				
S. Patent and Trademark Offic PTO-326 (Rev. 04-01)		tion Summary		Part of Paper	No. 12			

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DETAILED ACTION

1. This action is responsive to the election filed on 19 December 2002. The Applicant elected the species of Group I in response to the restriction requirement mailed on 19 November 2002. The Applicant indicated that the claims readable on the species of Group I are claims 1, 2, 4, 20, 33-35, 42-44, 54, 55, 57-59, 68, and 71-74. However, claims 71 and 73 are not readable on the species of Group I. Instead, claims 71 and 73 are readable on the species of Group IV. For this reason, the restriction requirement mailed on 19 November 2002 is being repeated in this Office action.

Election/Restrictions

- 2. This application contains claims directed to the following patentably distinct species of the claimed invention:
 - I. removing material along the second side of the substrate so that the first and second conductive layers protrude out of the opening, the second conductive layer protruding farther than the first conductive layer (fig. 4B);¹
 - removing material along the second side of the substrate so that the first conductive layer is recessed into the substrate (fig. 5);
 - Ill. removing material along the second side of the substrate so that the first and second conductive layers are flush with the second side of the substrate (fig. 9); and

¹ This species also includes the following embodiments: removing material along the second side of the substrate wherein the second conductive layer protrudes farther than the insulating layer, and the insulating layer protrudes farther than the first conductive layer.

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IV. removing material along the second side of the substrate so that a third conductive layer protrudes farther than the first and second conductive layers (fig. 16).

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 20 is generic.

- 3. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.
- 4. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. See MPEP § 809.02(a).
- 5. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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6. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toniae M. Thomas whose telephone number is (703) 305-7646. The examiner can normally be reached Monday through Thursday, and alternating Fridays, from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian can be reached on (703) 308-4905. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

*JMJ*March 6, 2003

AMIR ZARABIAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800